



Glenn Research Center



FCF Combustion Science Capabilities

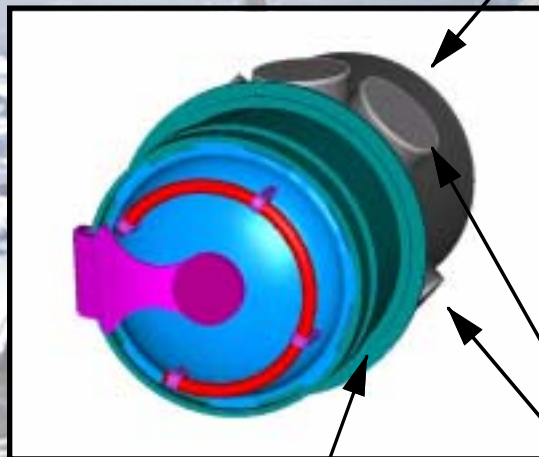
Combustion Chamber

Features

- Breech Lock Hinged Front Lid
- Redundant Seals
- Replaceable Windows
- Provides Interfaces to PI-Specific Hardware

Chamber Specifications

- 40 cm Internal Diameter
- 90 cm Overall Length
- 100 Free Liters
- Minimum 1 cm wall thickness
- Maximum pressure of 10 atm
- 6061-T6 Aluminum



Instrumentation Ring

- Provides interfaces internal to chamber
- 3 Electrical Connectors
- Water Cooling Ports (2)
- Vacuum Port
- Gas Delivery Port
- Exhaust Vent Port
- Sample Port

Window Specifications

- 8 Windows
- 4 Pairs, 180 degrees apart
- 12 cm Viewable Diameter
- Replaced from inside chamber
- No tools required
- Ratcheting Mechanism
- Redundant Seals